SIEMENS
LITHOSTAR Multiline

CS

Update Instructions   SP012/02/P

Title: Software Update Rev. 6.3

Reason for Update:		[X] Performance

Urgency:	[ ] Immediate	[x] Within 6 months	
Update material required?	[x] Yes	[ ] No	
Materials free of charge?	[x] Yes	[ ] No	
Return of parts?	[ ] Yes	[x] No	
Estimated completion time:	1 hr	Number of CSE's: 1	
Customer application training?	[ ] Yes	[x] No	

Systems/Products affected/System identifying IVK

Name	Material No.	Serial No.
LITHOSTAR Multiline	31 27 011 J1042	06000 - 07164

Remark: n.a.

Components affected/to be modified

Name	Material No.	Serial No.	Component status affected
n.a.	n.a.	n.a.	n.a.

Remark: n.a.

Chg. Ref. No.:   112 570
Name: Erlwein
Dept.:   CS PS 24

Document Revision Level

This document corresponds to the version/revision level effective at the time of system delivery. Revisions to hardcopy documentation are not automatically distributed.

Please contact your local Siemens office to order current revision levels.

Disclaimer

The installation and service of equipment described herein is to be performed by qualified personnel who are employed by Siemens or one of its affiliates or who are otherwise authorized by Siemens or one of its affiliates to provide such service.

Assemblers and other persons who are not employed by or otherwise directly affiliated with or authorized by Siemens or one of its affiliates are directed to contact one of the local offices of Siemens or one of its affiliates before attempting installation or service procedures.

Systems/Products Affected

LITHOSTAR Multiline - Systems with serial numbers according to page 1.

Reason for the Update

- Uniform software level for all LITHOSTAR Multiline systems installed worldwide.

- Elimination of errors 429X.

- Increase of limit to 1.2 Million.

Prerequisites

UI SP013/01/P Software Update, Rev. 06.

NOTICE	**If revision 06 is not yet installed, install it first according to UI SP013/01/P, and then perform a combined function test.**

Special Tools / Documents

- Service PC (max. 133 MHz) with WIN 3.11/ 95 operating system

- PC connection cable 99 00 440 RE999

- Service tool kit

Ordering Information

Place an order as follows for each system to be updated:

11 57 853 J1042 update kit VD00C

The update kit is free of charge.

Contents of the update kit

Update kit **11 57 853 J1042** contains the following parts:

Pos.	Quan.	Part No.	Name
1	1	11 57 614 J1042	HOST Software (VD00C)
2	1		Technical documents

Work Steps

NOTICE	There may appear problems while downloading the host software in case a service pc with a frequency > 133 MHz is used. If a more powerful PC is used the download will be terminated and the system cannot be operated anymore.

Recording Multiline-specific system parameters

- Switch the system on.

- Connect the service PC to the system (N11 board D1.X10).
  (Refer to Operating the service software RXL2-120.113.01).

- If service software VA00C has not yet been installed on the PC, install it.
  (Refer to Operating the service software RXL2-120.113.01).

- Call up the service software (To start, put the HOST software diskette VD00A from the logbook into the drive "a").

- Carry out a backup of all system parameters. (Data → Backup).

- Read out the following parameters and record them in the table.
  (Adjustment → Parameters → Get from Unit).
  (Refer to setting parameters RXL2-120.032.01.).

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Parameter Group	Parameter	Existing value rev 06	Entered in new parameter file rev 6.2
BIOS Host parameter	Multiline Version		
	Serial No*		
Clinic data	Clinic name**		
Configuration: Motor devices	MC1 am9 cone rotation		
Configuration: others	Table tilting yes/no		
Configuration: User terminal	control at unit (slave 2)		
	control at unit (slave 7)		
	control at unit (slave 8)		
	Language		
	User Terminal Ultrasound		
Interface: Collimator	Cassette format horizontal		
	Cassette format vertical		
	Pointformat		
	Slotformat horizontal		
	Slotformat vertical		
Interface: Intensifier	System type		
	Zoom 0		
	Zoom 1		
	Zoom 2		
	Zoom 3		
Interface: Image storage	Line frequency 50/60 Hz		
	System type		
Interface: Shock wave system	ECG Trigger available		
	Resp-Trigger available		
	Shock frequency		
Interface: Ultrasound	Line frequency 50/60 Hz		
	System available		
	Target		

Parameter Group	Parameter	Existing value rev 06	Entered in new parameter file rev 6.2
Interface: XCS Controller Generator	FLUORO Automatic 2		
	Generator type		
Parameter: am7 TV-Iris	DR Zoom 0		
	DR Zoom 1		
	DR Zoom 2		
	DR Zoom 3		
	Fluoro Zoom 0		
	Fluoro Zoom 1		
	Fluoro Zoom 2		
	Fluoro Zoom 3		
Parameter: am8 Cone length	Incremental encoder		
	Position factor, mantisse		
	Safety position (1/10mm)		
Parameter: am9 Cone rotation	Incremental encoder		
	Position factor, mantisse		

  * if no serial number is entered, enter the serial number of the system into the new parameter

 ** 32 blanks are entered as clinic name. These have to be deleted in order to enter a name.

- Read out the shock wave count, and record the values.
  (Refer to service software RXL2-120.032.02., monitoring chapter).

- Switch the system off.

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Updating the host software on the LITHOSTAR Multiline

Required parts from the upgrade kit:

Pos.	Quan.	Part No.	Name
1	1	11 57 614 J1042	HOST software VD00C

Tab. 1

- Switch the system on.

- Place the disk with the new host software version VD00C into the drive of the service PC.

- Call up the service software.

- Download the new host software version VD00C.
  In the Data menu: select Download Select **"ML_Host".**
  (Refer to Operating the service software RXL2-120.113.01.)

- Despite the message, no automatic reset is performed. Perform the reset with S1 on board D1 (in N11).

> | **NOTICE** | **If no manual reset is carried out, no restore of the parameters is possible. Disregard the status display on the operating monitor, service PC or board D1 and D6.** |
> |---|---|

- Use Menu, **Data Restore** to transfer the new parameter set LITHO_M.P00 from the Host SW version VD00C to the unit.
  (Refer to Operating the service software RXL2-120.113.01.).

- Record the parameters as well as the default values from the table; transfer them back to the unit as unit and system-specific values (Refer to Operating the Service Software RXL2-120.113.01. Menu Adjustment, Parameter.).

> | **NOTICE** | **The changed values have to be transmitted separately for each parameter group to the host.** |
> |---|---|

- If error EE00 occurs in the MEMOSKOP 3
  - set incorrect mains frequency and wait until reset was carried out.
  - Subsequently set correct mains frequency again.

- Create backup copies for the following data (Menu, Data, Backup)
  - Parameter, Customer Data, System Data, Technical Info, Service Data.

- Quit the service program and remove the disk from the drive.

- Switch the system **off.**

What is new in software Rev 6.3?

- Improved error detection.
- Constancy limit increased to 1.2 million.

NOTICE	**Due to changes in the monitoring of the shock wave system, the shock wave cabinet must be switched on when switching on the system. The shock wave cabinet can be switched off, when the system is ready for use.**

Final Work Steps

- Reattach all covers.

- Perform a function test for all the drives.

- Using the service PC, enter the Text "Software Rev. 6.2" into the Menu.
  Info → Technical Info.

- Make backup copies of all parameters (menu, data, backup).

- Place the disks in the logbook. Remove the old software and destroy it.

- Update the system documentation.
  Update the revision level, the operating instructions and the technical documentation.
  Fill out, and if needed, make a copy of the attached "Completion Protocol/ Update Completion Form" and file it in the corresponding System Binder/User Handbook.

- Updates that have already been completed prior to publication of this SI must also be reported.

- The update is reported as follows:
  - The modification reply cards (Type 606) previously distributed with the publication of updates no longer apply.
  - The modification reply report has to be prepared by authorized personnel using an application on the Intranet.

Completion Protocol

The update with the number **SP012/02/P** has been completed.

Material Number: 31 27 011   LITHOSTAR Multiline

Serial Number: ....

Customer: ....   Site: ....

Customer No.: ....

Name (CSE): ....   Telephone: ....

Country: ....   Location: ....

Date: ....   Signature: ....

Remark: ....

....

NOTE	**After completing the update, make a copy of this page, fill it out and file it in the corresponding System Binder/User Handbook.**